Notice of Allowability	Application No.	Applicant(s)
	10/055,901	KOKUBUN ET AL.
	Examiner	Art Unit
	Gary C. Vieaux	2622
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included in will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $3/1/2007$.		
2. $igspace$ The allowed claim(s) is/are <u>1-3, 7-16 (now formally renuml</u>	<u>bered as 1-13)</u> .	
3. Acknowledgment is made of a claim for foreign priority unally all b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: □	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. hitted. Note the attached EXAMINER es reason(s) why the oath or declar	a national stage application from the complying with the requirements R'S AMENDMENT or NOTICE OF ation is deficient.
	· · ·	9-948) attached
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet.	s Amendment / Comment or in the	ings in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material		y (PTO-413), ate
	9. Other	NGOJ-YEN YU NGOJ-YEN YU SORV PATENT EXAMINER

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EXAMINER'S AMENDMENT / STATEMENT OF REASONS FOR ALLOWANCE

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 1, 2007, has been entered.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Begin Examiner's Amendment

Amendment to the Specification

The title is amended to read "X-Y ADDRESS TYPE SOLID-STATE IMAGE PICKUP DEVICE WITH AN IMAGE AVERAGING CIRCUIT DISPOSED IN THE NOISE CANCEL CIRCUIT", which represents a title that is more clearly indicative of the invention to which the claims are currently directed.

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Amendment to the Claims

Claims 10 and 13-16 are no longer withdrawn from consideration.

Claim 1 is generic and allowable. Accordingly, the restriction requirement as to the encompassed species is hereby withdrawn and claims 10 and 13-16, directed to the species 1-3 and 5 are no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim.

In view of the above noted withdrawal of the restriction requirement as to the linked species, applicant(s) are advised that if any claim(s) depending from or including all the limitations of the allowable generic linking claim(s) be presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

End Examiner's Amendment

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REASONS FOR ALLOWANCE

Amendment

In response to the most recent Office Action, dated August 9, 2006, claims 1 and 7 have been amended, and claims 4-6 have been cancelled.

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Response to Amendment

Applicant's arguments with respect to the objection to the Drawings have been fully considered and are persuasive. The objection of Figure 11 has been withdrawn.

Applicant's arguments, with respect to claims 1-3, 7-9, and 11-12 have been fully considered and are persuasive. The rejections of 1-3, 7-9, and 11-12 have been withdrawn.

Allowable Subject Matter

Claims 1-3 and 7-16 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1-3 and 7-16, the prior art is not found to teach or fairly suggest, an image pickup device comprising a plurality of pixel regions arranged in a matrix form in regions defined by a plurality of horizontal selection lines and a plurality of vertical selection lines, wherein each pixel region including a photoelectric transducer for performing photoelectric conversion of incident light, an amplifier for converting an electric charge stored in the photoelectric transducer into image data, and a horizontal selection switch for outputting the image data to a predetermined one of vertical

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selection lines on the basis of a horizontal selection signal outputted to a predetermined one of horizontal selection lines, a noise cancel circuit for removing a noise superimposed on the image data, and an image averaging circuit disposed in the noise cancel circuit for carrying out an averaging processing of the image data after the end of the noise cancel operation outputted from at least two of the plurality of pixel regions, wherein the noise cancel circuit includes, for each of the vertical selection lines, a correlated double sampling circuit in which an electric charge corresponding to the image data after removal of the noise is held in a first capacitance, and the image averaging circuit includes a first averaging processing switch for connecting a plurality of the first capacitances to average a plurality of the electric charges

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Krymski (US 7,154,075) discloses a method of pixel binning incorporated into a noise reduction scheme.

Yang et al. (US 2004/0246354) discloses pixel averaging with noise reduction.

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Contact

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary C. Vieaux whose telephone number is 571-272-7318. The examiner can normally be reached on Monday - Friday, 8:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NgocYen T. Vu can be reached on 571-272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for
published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should
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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gary C. Vieaux Examiner Art Unit 2622

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SUPERVISORY PATENT EXAMINER